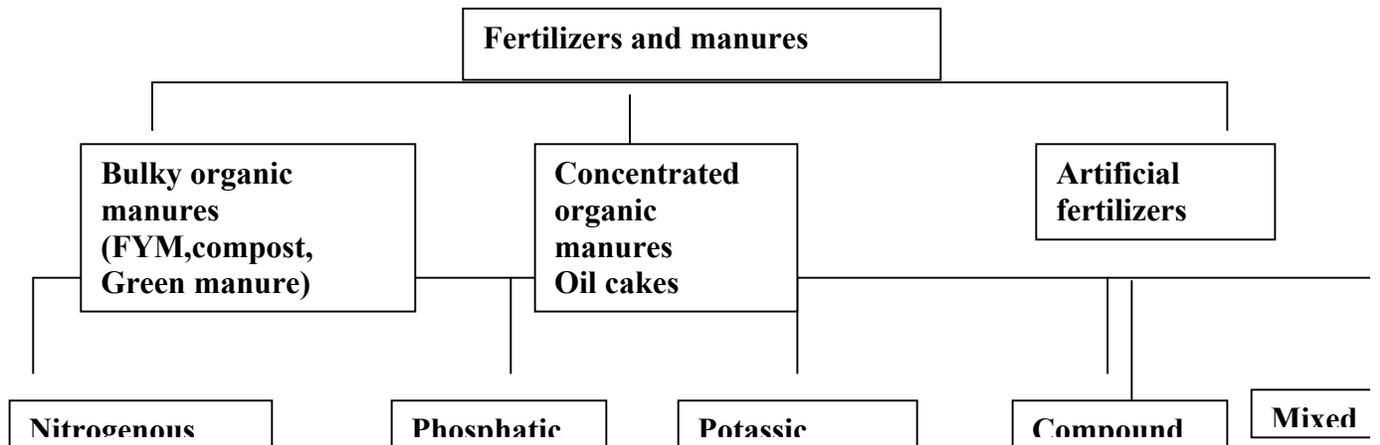
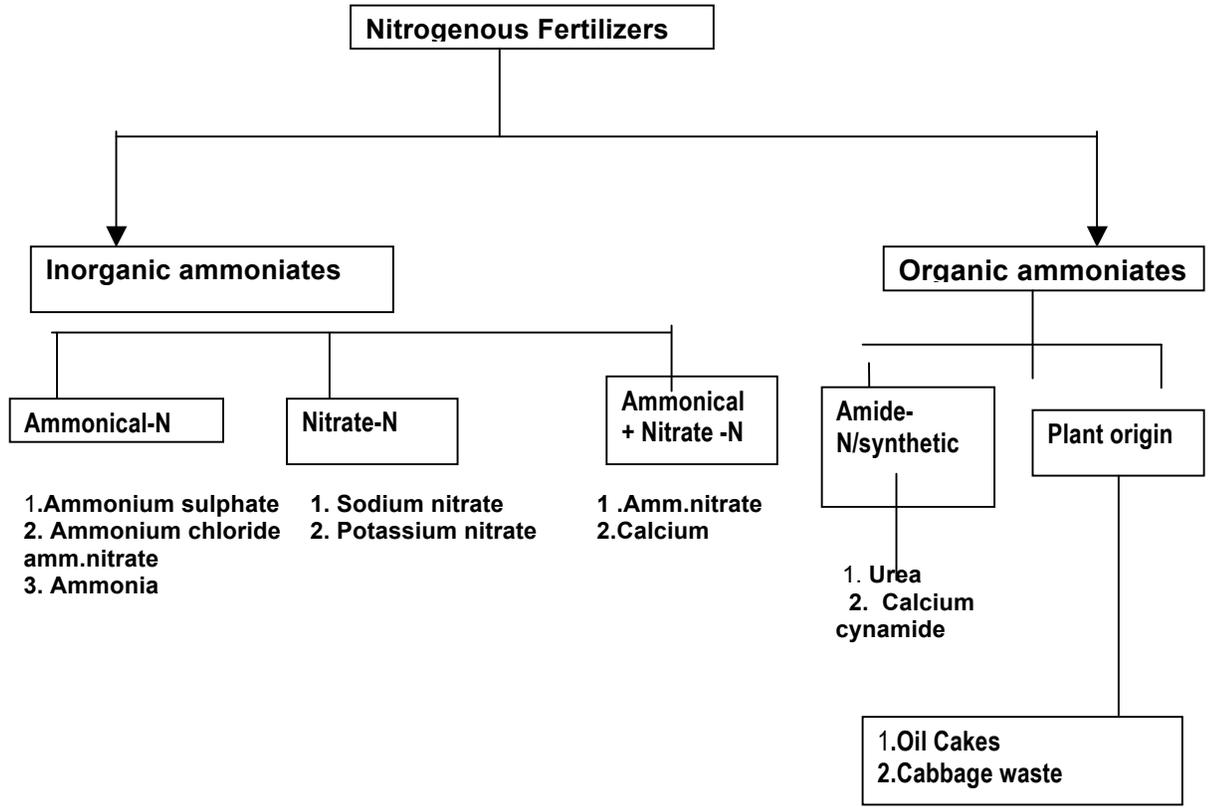


#### 04. Classification of fertilizers – N, P and K fertilizers

##### Classification of fertilizers

Commercial N, both organic and inorganic is desired from a wide variety of materials which are found to differ very widely in their sources, properties, method of preparation and their reactions in the soil. Classification based on chemical form seems to be more satisfactory as indicated below.

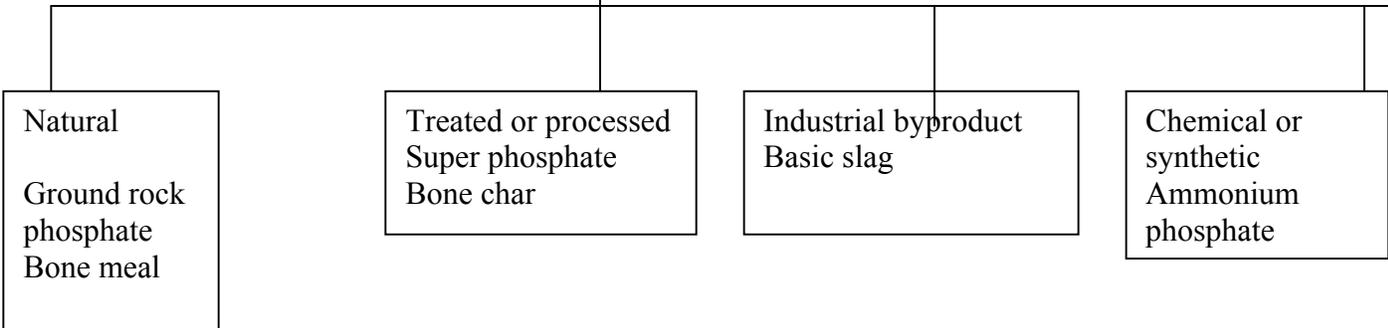




The nitrogen content of different nitrogenous fertilizers is given below

Sl.No	Name of the fertilizer	N content (%)	Form of N
1	Sodium nitrate ( $\text{NaNO}_3$ )	16.0	Nitrate ( $\text{NO}_3$ )
2	Potassium nitrate ( $\text{KNO}_3$ )	12.5-13.5	Nitrate
3.	Ammonium sulphate ( $\text{NH}_4$ ) <sub>2</sub> $\text{SO}_4$	20.6	$\text{NH}_4$ (Ammonia)
4.	Ammonium chloride ( $\text{NH}_4$ $\text{Cl}$ )	26.0	$\text{NH}_4$
5.	Ammophos - A	11.0	$\text{NH}_4$
6.	Ammophos – B	16.0	$\text{NH}_4$
7.	Ammonium Nitrate ( $\text{NH}_4$ )	33.0	$\text{NH}_4$ – 16.5 $\text{NO}_3$ – 16.5
8.	Ammonium sulphate nitrate	25.6	$\text{NH}_4$ – 19.5 $\text{NO}_3$ – 6.6
9.	Urea ( $\text{CO}(\text{NH}_2)_2$ )	46.0	Amide
10.	Calcium cyan amide ( $\text{CaCN}_2$ )	20.6	Amide
11.	Dried blood	3-14	Protein(organic)
12.	Groundnut cake	8.0	Protein(organic)
13.	Meat meal	09.0-11.	Protein (organic)
14.	Guano	10.0	Protein (organic)

**PHOSPHATIC FERTILIZERS**



**POTASSIC**

